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**(54) MAGNETIC FLUID-IMPREGNATED SINTERED SLIDE BEARING AND
MANUFACTURE THEREOF****(57)Abstract:**

PROBLEM TO BE SOLVED: To provide a magnetic fluid-impregnated sintered slide bearing to have excellent slide performance and prevent outflow of lubrication oil, in a composite material of a bronze alloy, having excellent slide characteristics, and a permanent magnet.

SOLUTION: Mixture powder with metal powder forming a bronze alloy, containing 30-70 wt.% Alnico powder, on which age hardening treatment is applied, and 10-50 wt.% foil powder of copper is green-molded at temperature of 700° C or less in reduction atmosphere, and sizing, magnetizing treatment, and magnetic fluid-impregnation are effected.

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(54) 【発明の名称】 磁性流体含浸焼結滑り軸受及びその製造方法

(57) 【要約】

【課題】摺動特性に優れた青銅系合金と永久磁石の複合材料において、摺動性能に優れ、潤滑油の流出を防止できる磁性流体含浸焼結滑り軸受を提供する。

【解決手段】時効硬化処理を施したアルニコ粉末を30～70重量%と、銅の箔粉10～50重量%を含む青銅合金を形成する金属粉との混合粉を軸受形状に圧粉成形し、その圧粉体を還元雰囲気中で温度700℃以下で焼結を行い、サイジング、磁化処理及び磁性流体含浸を行う。